

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	27679	kim.in.	US-PGPUB	OR	ON	2007/02/26 13:51
L2	267934	ellip\$7 elip\$7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/26 13:52
L3	99768	("369").CLAS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/26 13:52
L6	23	L1 and L3 and lens and L2	US-PGPUB	OR	ON	2007/02/26 13:52
S1	289409	lens (focus\$4 near2 (element device unit apparatus))	US-PGPUB; USPAT	OR	ON	2006/05/12 10:17
S2	847301	reflect\$3 mirror	US-PGPUB; USPAT	OR	ON	2005/04/11 16:35
S3	834625	ellips\$5 curve\$2 parabol\$7	US-PGPUB; USPAT	OR	ON	2005/11/09 16:04
S4	5499	S1 near10 S2 near10 S3	US-PGPUB; USPAT	OR	ON	2005/11/09 16:05
S5	81229	ellips\$5 parabol\$7	US-PGPUB; USPAT	OR	ON	2005/04/11 16:40
S6	3152	S1 near10 S2 near10 S5	US-PGPUB; USPAT	OR	ON	2005/04/11 16:41
S7	286520	lens (focus\$4 near2 (element device))	US-PGPUB; USPAT	OR	ON	2005/04/11 16:41
S8	3118	S7 near10 S2 near10 S5	US-PGPUB; USPAT	OR	ON	2005/04/11 16:41
S9	135	(369/112.08).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/04/11 16:42
S10	49	(369/112.09).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/04/11 16:42
S11	71	(369/112.2).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/04/11 16:42
S12	426	(369/112.23).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/04/12 13:33
S13	40	(369/112.25).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/04/11 16:42
S14	239	(369/112.28).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/11/10 08:39

## EAST Search History

S15	835265	ellips\$5 curve\$2 parabol\$7	US-PGPUB; USPAT	OR	ON	2005/04/12 13:30
S16	239	(369/112.28).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/04/12 13:30
S17	71	S16 and S15	US-PGPUB; USPAT	OR	ON	2005/04/12 13:31
S19	426	(369/112.23).CCLS.	US-PGPUB; USPAT	OR	OFF	2005/04/12 13:33
S20	157	S19 and S15	US-PGPUB; USPAT	OR	ON	2005/04/12 13:33
S21	237391	ellip\$7 elip\$7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/10 08:39
S22	312553	lens (focus\$4 near2 (element device unit apparatus))	US-PGPUB; USPAT	OR	ON	2005/11/10 08:59
S23	915443	reflect\$3 mirror	US-PGPUB; USPAT	OR	ON	2005/11/10 08:39
S24	1938	S22 near10 S23 near10 S21	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/10 08:59
S25	257	(369/112.28).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/10 08:40
S26	5	S24 and S25	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/10 08:40
S27	300687	lens	US-PGPUB; USPAT	OR	ON	2005/11/10 08:59
S28	5483	S21 same S23 same S27	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/10 09:04

## EAST Search History

S29	38	S28 and S25	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/10 09:04
S30	94969	("369").CLAS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/11/10 09:04
S31	2376	S21 near10 S27 same S23	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/10 09:05
S32	188	S31 and S30	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/11/10 09:06
S33	331741	lens (focus\$4 near2 (element device unit apparatus))	US-PGPUB; USPAT	OR	ON	2006/05/10 13:26
S34	972260	reflect\$3 mirror	US-PGPUB; USPAT	OR	ON	2006/05/10 13:26
S35	934310	ellips\$5 curve\$2 parabol\$7	US-PGPUB; USPAT	OR	ON	2006/05/10 13:26
S36	6326	S33 near10 S34 near10 S35	US-PGPUB; USPAT	OR	ON	2006/05/10 13:26
S37	93594	ellips\$5 parabol\$7	US-PGPUB; USPAT	OR	ON	2006/05/10 13:26
S38	3635	S33 near10 S34 near10 S37	US-PGPUB; USPAT	OR	ON	2006/05/10 13:26
S39	328376	lens (focus\$4 near2 (element device))	US-PGPUB; USPAT	OR	ON	2006/05/10 13:26
S40	3598	S39 near10 S34 near10 S37	US-PGPUB; USPAT	OR	ON	2006/05/10 13:26
S41	164	(369/112.08).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/05/10 13:26
S42	59	(369/112.09).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/05/10 13:26
S43	72	(369/112.2).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/05/10 13:26

## EAST Search History

S44	44	(369/112.25).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/05/10 13:26
S45	256	(369/112.28).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/05/10 13:26
S46	553	(369/112.23).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/05/10 13:26
S47	934310	ellips\$5 curve\$2 parabol\$7	US-PGPUB; USPAT	OR	ON	2006/05/10 13:26
S48	256	(369/112.28).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/05/10 13:26
S49	77	S48 and S47	US-PGPUB; USPAT	OR	ON	2006/05/10 13:26
S50	553	(369/112.23).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/05/10 13:26
S51	210	S50 and S47	US-PGPUB; USPAT	OR	ON	2006/05/10 13:26
S52	248371	ellip\$7 elip\$7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/10 13:28
S53	331741	lens (focus\$4 near2 (element device unit apparatus))	US-PGPUB; USPAT	OR	ON	2006/05/10 13:26
S54	972260	reflect\$3 mirror	US-PGPUB; USPAT	OR	ON	2006/05/10 13:26
S55	2059	S53 near10 S54 near10 S52	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/10 13:26
S56	265	(369/112.28).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/10 13:26
S57	5	S55 and S56	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/10 13:26
S58	319054	lens	US-PGPUB; USPAT	OR	ON	2006/05/10 13:26

## EAST Search History

S59	5812	S52 same S54 same S58	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/10 13:26
S60	38	S59 and S56	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/10 13:26
S61	96859	("369").CLAS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/05/10 13:26
S62	2529	S52 near10 S58 same S54	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/10 13:26
S63	194	S62 and S61	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/10 13:26
S64	4840	S52 near5 (lens lenses)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/10 13:49
S65	20	S52 near5 (immers\$4 near2 (lens lenses))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/10 13:29
S66	11564946	dual two parallel several multiple many plural	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/10 13:49

## EAST Search History

S67	449675	foci ((spot point) near3 (focal focus\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/10 13:50
S68	77301	S66 with S67	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/10 13:50
S69	311	S68 same S64	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/10 13:51
S70	41747	("369").CLAS.	US-PGPUB; USPAT	OR	OFF	2006/05/10 13:51
S71	11	S69 and S70	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/05/10 13:52
S72	1	("4866694").PN.	US-PGPUB; USPAT	OR	OFF	2006/05/12 10:17
S73	351310	lens (focus\$4 near2 (element device unit apparatus))	US-PGPUB; USPAT	OR	ON	2006/10/19 12:53
S74	1030996	reflect\$3 mirror	US-PGPUB; USPAT	OR	ON	2006/10/19 12:53
S75	980539	ellips\$5 curve\$2 parabol\$7	US-PGPUB; USPAT	OR	ON	2006/10/19 12:53
S76	6698	S73 near10 S74 near10 S75	US-PGPUB; USPAT	OR	ON	2006/10/19 12:53
S77	99287	ellips\$5 parabol\$7	US-PGPUB; USPAT	OR	ON	2006/10/19 12:53
S78	3841	S73 near10 S74 near10 S77	US-PGPUB; USPAT	OR	ON	2006/10/19 12:53
S79	347695	lens (focus\$4 near2 (element device))	US-PGPUB; USPAT	OR	ON	2006/10/19 12:53
S80	3803	S79 near10 S74 near10 S77	US-PGPUB; USPAT	OR	ON	2006/10/19 12:53
S81	179	(369/112.08).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/10/19 12:53
S82	60	(369/112.09).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/10/19 12:53
S83	73	(369/112.2).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/10/19 12:53

## EAST Search History

S84	46	(369/112.25).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/10/19 12:53
S85	267	(369/112.28).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/10/19 12:53
S86	581	(369/112.23).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/10/19 12:53
S87	980539	ellips\$5 curve\$2 parabol\$7	US-PGPUB; USPAT	OR	ON	2006/10/19 12:53
S88	267	(369/112.28).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/10/19 12:53
S89	79	S88 and S87	US-PGPUB; USPAT	OR	ON	2006/10/19 12:53
S90	581	(369/112.23).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/10/19 12:53
S91	221	S90 and S87	US-PGPUB; USPAT	OR	ON	2006/10/19 12:53
S92	259598	ellip\$7. elip\$7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/19 12:53
S93	351310	lens (focus\$4 near2 (element device unit apparatus))	US-PGPUB; USPAT	OR	ON	2006/10/19 12:53
S94	1030996	reflect\$3 mirror	US-PGPUB; USPAT	OR	ON	2006/10/19 12:53
S95	2187	S93 near10 S94 near10 S92	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/19 12:53
S96	276	(369/112.28).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/19 12:53
S97	5	S95 and S96	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/19 12:53
S98	337683	lens	US-PGPUB; USPAT	OR	ON	2006/10/19 12:53

## EAST Search History

S99	6155	S92 same S94 same S98	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/19 12:53
S10 0	39	S99 and S96	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/19 12:53
S10 1	98608	("369").CLAS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/19 12:53
S10 2	2696	S92 near10 S98 same S94	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/19 12:53
S10 3	197	S102 and S101	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/19 12:53
S10 4	351310	lens (focus\$4 near2 (element device unit apparatus))	US-PGPUB; USPAT	OR	ON	2006/10/19 12:53
S10 5	1030996	reflect\$3 mirror	US-PGPUB; USPAT	OR	ON	2006/10/19 12:53
S10 6	980539	ellips\$5 curve\$2 parabol\$7	US-PGPUB; USPAT	OR	ON	2006/10/19 12:53
S10 7	6698	S104 near10 S105 near10 S106	US-PGPUB; USPAT	OR	ON	2006/10/19 12:53
S10 8	99287	ellips\$5 parabol\$7	US-PGPUB; USPAT	OR	ON	2006/10/19 12:53
S10 9	3841	S104 near10 S105 near10 S108	US-PGPUB; USPAT	OR	ON	2006/10/19 12:53
S11 0	347695	lens (focus\$4 near2 (element device))	US-PGPUB; USPAT	OR	ON	2006/10/19 12:53
S11 1	3803	S110 near10 S105 near10 S108	US-PGPUB; USPAT	OR	ON	2006/10/19 12:53
S11 2	980539	ellips\$5 curve\$2 parabol\$7	US-PGPUB; USPAT	OR	ON	2006/10/19 12:53



## EAST Search History

S11 3	267	(369/112.28).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/10/19 12:53
S11 4	581	(369/112.23).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/10/19 12:53
S11 5	259598	ellip\$7 elip\$7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/19 13:27
S11 6	351310	lens (focus\$4 near2 (element device unit apparatus))	US-PGPUB; USPAT	OR	ON	2006/10/19 12:53
S11 7	1030996	reflect\$3 mirror	US-PGPUB; USPAT	OR	ON	2006/10/19 12:53
S11 8	2187	S116 near10 S117 near10 S115	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/19 12:53
S11 9	276	(369/112.28).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/19 12:53
S12 0	337683	lens	US-PGPUB; USPAT	OR	ON	2006/10/19 12:53
S12 1	6155	S115 same S117 same S120	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/19 12:53
S12 2	98608	("369").CLAS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/10/19 12:53
S12 3	2696	S115 near10 S120 same S117	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/19 12:53
S12 4	60	(369/112.09).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/10/19 12:53

## EAST Search History

S12 5	73	(369/112.2).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/10/19 12:53
S12 6	46	(369/112.25).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/10/19 12:53
S12 7	79	S113 and S112	US-PGPUB; USPAT	OR	ON	2006/10/19 12:53
S12 8	5	S118 and S119	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/19 12:53
S12 9	39	S121 and S119	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/19 12:53
S13 0	179	(369/112.08).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/10/19 12:53
S13 1	197	S123 and S122	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/19 12:53
S13 2	267	(369/112.28).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/10/19 12:53
S13 3	221	S114 and S112	US-PGPUB; USPAT	OR	ON	2006/10/19 12:53
S13 4	581	(369/112.23).CCLS.	US-PGPUB; USPAT	OR	OFF	2006/10/19 12:53
S13 5	5094	S115 near5 (lens lenses)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/19 12:53
S13 6	21	S115 near5 (immers\$4 near2 (lens lenses))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/19 13:29

## EAST Search History

S13 7	11878470	dual two parallel several multiple many plural	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/19 12:53
S13 8	474192	foci ((spot point) near3 (focal focus\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/19 12:53
S13 9	81087	S137 with S138	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/19 12:53
S14 0	328	S139 same S135	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/19 12:53
S14 1	43495	("369").CLAS.	US-PGPUB; USPAT	OR	OFF	2006/10/19 12:53
S14 2	11	S140 and S141	US-PGPUB; USPAT; EPO; JPO	OR	ON	2006/10/19 12:53
S14 3	1	("4866694").PN.	US-PGPUB; USPAT	OR	OFF	2006/10/19 12:53
S14 4	141332	(focus\$3 focal) near2 (point spot position)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/19 13:28
S14 5	11911	S73 and S115 and S144	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/19 13:28
S14 6	5146	(immers\$4 near2 (lens lenses))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/19 13:29

## EAST Search History

S14 7	26	S146 and (S73 same S115 same S144)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/19 14:39
S14 8	53	S146 and (S115 same S144)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/19 14:39
S14 9	14	S148 and S122	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/10/19 14:40
S15 0	365242	lens (focus\$4 near2 (element device unit apparatus))	US-PGPUB; USPAT	OR	ON	2007/02/16 12:24
S15 1	267451	ellip\$7 elip\$7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/16 12:24
S15 2	145490	(focus\$3 focal) near2 (point spot position)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/16 12:24
S15 3	5365	(immers\$4 near2 (lens lenses))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/16 12:24
S15 4	29	S153 and (S150 same S151 same S152)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/16 12:24
S15 5	99709	("369").CLAS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/16 12:24

## EAST Search History

S15 6	58	S153 and (S151 same S152)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/16 12:24
S15 7	15	S156 and S155	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/16 12:25
S15 8	318822	kim.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/26 13:51
S15 9	6286	S158 and lens	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/16 12:25
S16 0	892	S158 and S155	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/16 12:25
S16 1	486	S158 and S155 and lens	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/16 12:26
S16 2	42	S158 and S155 and lens and S151	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/16 12:26